

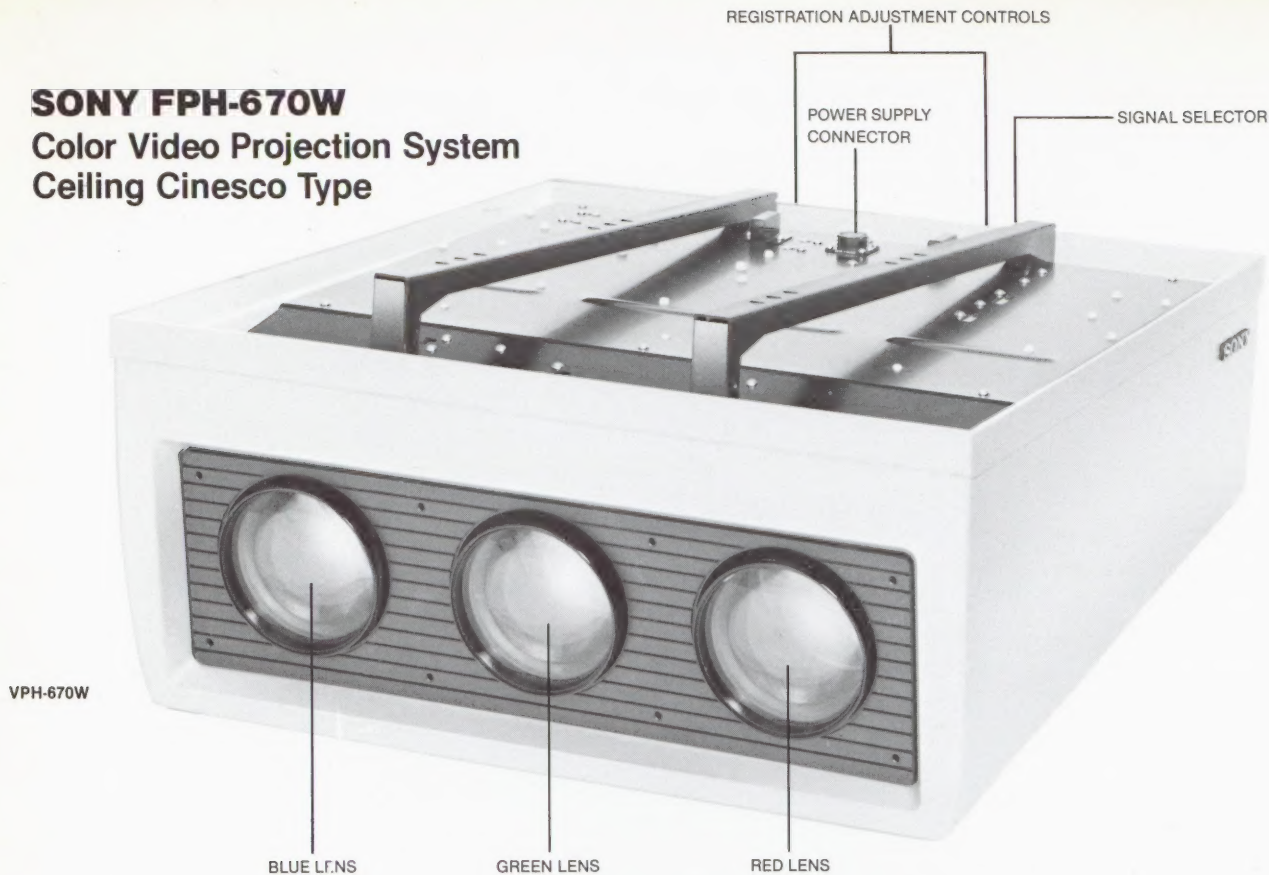
Sony Video Communications

The Sony FPH-670W projects clear, sharp video images in either the standard 3×4 TV ratio or an extrawide 2.35×1 ratio—without any special projection lenses—onto a high-gain video screen—or a conventional flat screen. Designed for heavy institutional or industrial use it is particularly well suited for use in video theaters and as a video window for teleconferencing. It's also an excellent cost and time saving aid for movie productions and a perfect system for aircraft and marine training simulators.

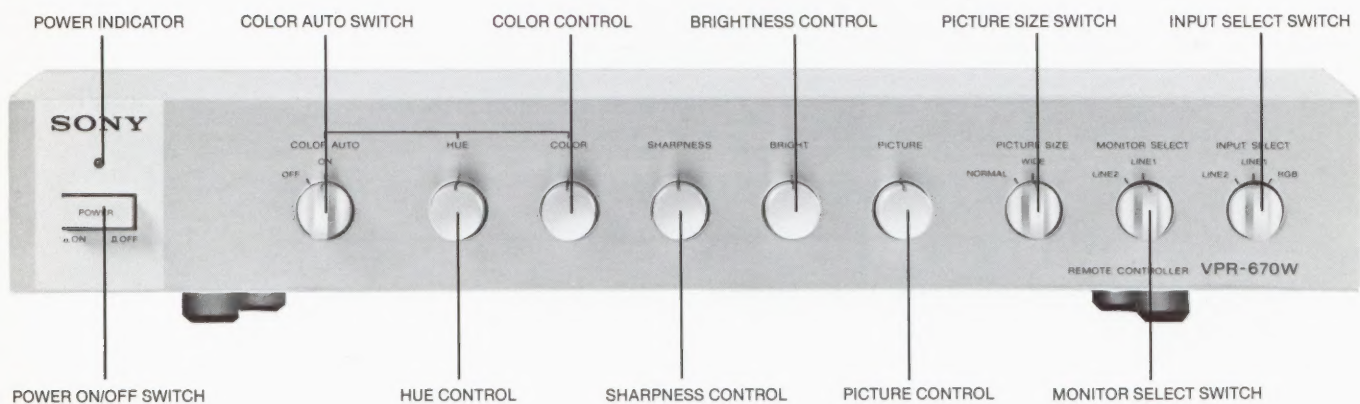
FPH-670W Color Video Projection System Ceiling Cinesco Type



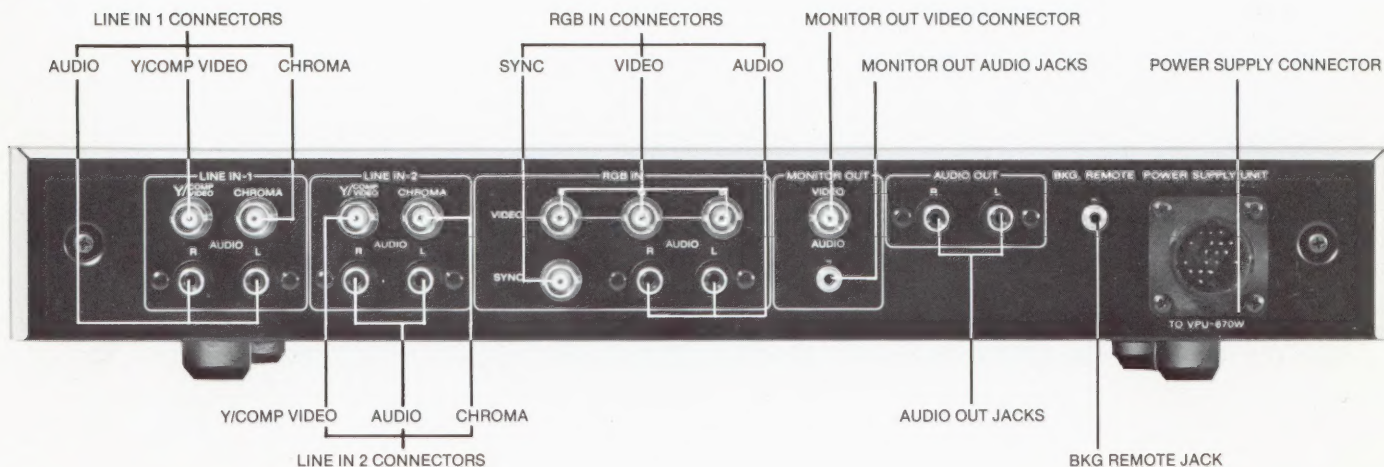
SONY FPH-670W **Color Video Projection System** **Ceiling Cinesco Type**



VPH-670W

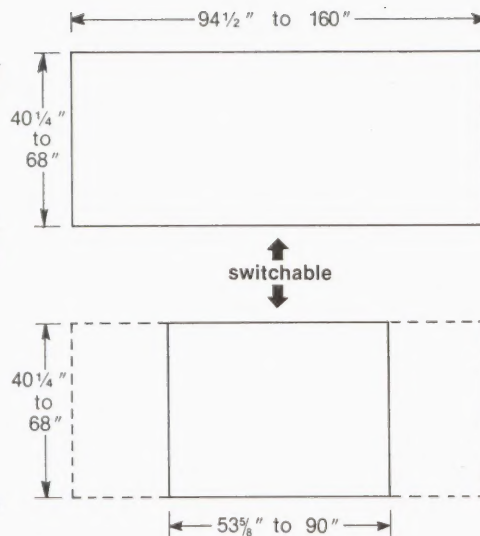


VPR-670W



Features

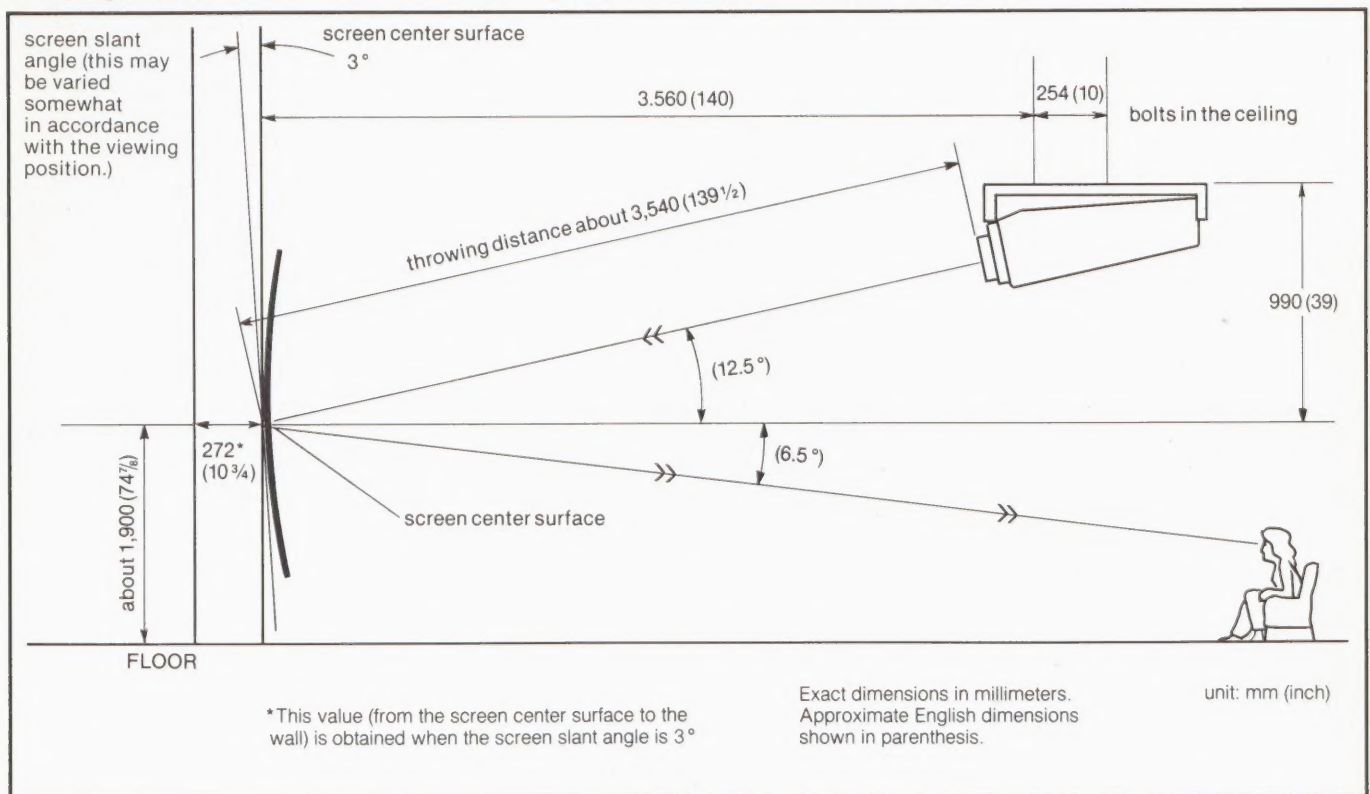
- Projects images in either the regular 3×4 TV ratio or extra-wide 2.35×1 ratio without the need for special projection lenses.
- Can project a bright, crisp picture on a high gain video screen (94½ × 40½ inch), plus a large (120-to-200 inch) diagonal picture on a conventional flat screen in regular 3×4 ratio.
- Switchable between wide screen (2.35×1 ratio) and regular (3×4 ratio) operation.
- Remote control operation for controlling power, color adjustment,



- input selection and aspect-ratio selection at distances up to 200 feet.
- Versatile input capability: accepts either two composite NTSC video signals or RGB signal with 1800-character display capacity.
- Projected picture and audio can be monitored at remote locations through MONITOR-OUT connector.
- Wide viewing angle: ±45 degrees from screen center of a VPS-670W high gain screen.
- Ceiling-mount design saves space and allows unobstructed viewing.
- Built-in crosshatch test-pattern generator for easy set up.

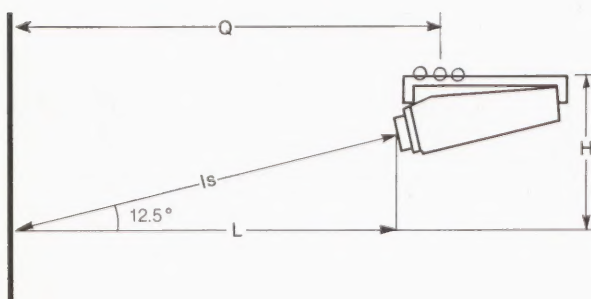
For VPS-670W High Gain Video Screen

This configuration indicates the relative position among the projector, screen and the viewing position.



For conventional Flat Screen (Aspect Ratio 3×4)

Relationship between the projector and the screen



Picture Size	Is	L	Q	H
120" (2.4m × 1.8m)	3.540	3.460	3.560	990
140" (2.8m × 2.1m)	4.110	4.000	4.100	1.110
150" (3.0m × 2.3m)	4.400	4.290	4.390	1.170
160" (3.3m × 2.4m)	4.670	4.560	4.660	1.230
170" (3.5m × 2.6m)	4.960	4.850	4.950	1.300
180" (3.7m × 2.7m)	5.260	5.130	5.230	1.360
200" (4m × 3m)	5.830	5.690	5.790	1.480

unit: mm

L: from the screen center to the lens surface

Is: throwing distance

H: from the screen center to the mounting stay assembly

Q: distance from screen to center hole of mounting bracket

SONY FPH-670W

Color Video Projection System Ceiling Cinesco Type

SPECIFICATIONS

OPTICAL

Projection Lens: High efficiency large-aperture lenses f1.6/170 mm

Picture Tube: 8 inch high brightness RGB monochrome tubes

Screen: Aluminized, high efficiency concave screen

Projected Picture Size:

NORMAL: 40 $\frac{1}{4}$ " \times 53 $\frac{5}{8}$ " (H \times W)

1,022mm \times 1,360mm (H \times W)

WIDE: 40 $\frac{1}{4}$ " \times 94 $\frac{1}{2}$ " (H \times W)

1,022mm \times 2,400mm (H \times W)

Picture Brightness (white

peak): about 30 fL in WIDE mode

Throwing Distance: about 12 ft.

(3.54 m) with optional screen VPS-670W

Viewing Distance: 17 to 83 ft.

(5 to 25 m)

Optimum Seating Arrangement:

Within approx. \pm 45 degrees from the center of the screen

ELECTRICAL

Signal: NTSC system

Contrast Ratio: 40:1

Automatic Controls:

ACC (automatic color control)

ACK (automatic color killer)

ABL (automatic brightness limiter)

ANC (automatic noise canceller)

AVR (automatic voltage regulator)

HVR (high voltage regulator)

AFT (automatic frequency control)

Anode Voltage: 27 kV

Registration: Crosshatch test pattern generator is incorporated.

RGB Inputs: Character display

capacity: 1800 characters

(5 \times 7 dots, 60 letters \times 30 lines)

Horizontal frequency: 15.75 kHz

Vertical frequency: 60 Hz

Resolution: 420 TV lines (horizontal)

350 TV lines (vertical)

Inputs/Outputs:

Signal	Connector	Signal level	Remarks
Video input	LINE IN 1 BNC connector	1 V (p-p) \pm 0.2 V	NTSC 75 Ohms sync negative composite video or Y/C selectable
	LINE IN 2 BNC connector		
	RGB IN BNC connector	composite RGB: 1V (p-p) \pm 0.2V or non-composite RGB: 0.7V (p-p) \pm 0.15V sync: 0.5V (p-p) — 6V (p-p), 75 Ohms, sync negative	Sync is selected automatically between com- posite RGB signal and exter- nal sync.
Video output	MONITOR OUT BNC connector	1V (p-p) \pm 0.2V	NTSC, 75 Ohms sync negative
Audio input	LINE IN 1 Phono jacks LINE IN 2 Phono jacks RGB IN Phono jacks	— 5 dB	high impedance
Audio output	MONITOR OUT Mini jack AUDIO OUT Phono jacks	— 5 dB	less than 5 k Ohms

GENERAL

Type: Ceiling projector

Projection System: 3 picture tube—3 projection lens direct projection system

Power Requirements: 120 V AC, 60 Hz

Power Consumption: 210 W (max)

190 W (average)

Weight and Dimensions:

Unit	Dimensions (HWD)	Weight
VPH-670W Color Video Projector	11 $\frac{1}{8}$ " \times 26 $\frac{1}{4}$ " \times 28 $\frac{5}{8}$ " 295mm \times 664mm \times 725mm	Projector: 71 lb (32.4 kg) Cabinet: 8 lb (3.6 kg) Mounting bracket Stay assembly: 6 lb (2.5 kg)
VPU-670W Projector Power Supply	4 $\frac{7}{8}$ " \times 17" \times 15 $\frac{3}{4}$ " 108 mm \times 430mm \times 400mm	29 lb (13 kg)
VPR-670W Remote Controller	2 $\frac{7}{8}$ " \times 17" \times 9 $\frac{3}{4}$ " 73mm \times 430mm \times 247mm	7 lb (3.1 kg)
VPS-670W Video Screen with Bracket assembly	44 $\frac{1}{4}$ " \times 98 $\frac{1}{2}$ " \times 10 $\frac{3}{8}$ " 1,120mm \times 2,500mm \times 270 mm	95 lb (43 kg)

System Components:

VPH-670W Projector with cabinet

VPU-670W Power supply

VPR-670W Remote controller

Optional Components:

VPS-670W High-gain video screen
w/2.35 \times 1 aspect ratio

Supplied Accessories:

28 pin connecting cable 1.2m

28 pin connecting cable 12m

Adjustment tool w/holder

Insertion/extraction tool

Polishing cloth

Projector mounting bracket/stay
assembly

Optional Accessories:

PCC-120 28 pin cable (12m) (40 ft.)

PCC-240 28 pin cable (24m) (80 ft.)

PCC-360 28 pin cable (36m) (120 ft.)

PSS-10 Projector suspension support

Specifications subject to change without notice.

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